

CLAIMS

1. A ring saw driver comprising:

a ring saw main body having a multiplicity of cutting edges along an outer periphery thereof; and

an endless strip arranged in a manner being wound at a part of an outer periphery thereof over a part of an outer periphery of the ring saw main body and for driving the ring saw main body into circulation.

2. A ring saw driver according to claim 1, wherein the endless strip is an endless belt.

3. A ring saw driver according to claim 2, wherein the endless belt has such a recess or a projection as to engage with a projection or a recess in the outer periphery of the ring saw main body.

4. A ring saw driver according to any of claims 2 to 3, wherein the endless belt has a through-hole for avoiding an interference of the ring saw main body with the cutting edge.

5. A ring saw driver according to claim 1, wherein the endless strip is an endless chain structured to engage with a plurality of teeth formed along the outer periphery of the ring saw main body, in a portion being wound over the outer periphery of the ring saw main body.

6. A ring saw driver according to any of claims 1 to 5, wherein the endless strip is wound over a plurality of rotary members, part of the rotary members being a driving sprocket

or pulley operably coupled to a prime mover of a hydraulic motor or the like.

7. A ring saw driver according to claim 6, wherein the endless strip is wound over two rotary members, at least one of the rotary members being a driving sprocket or pulley.

8. A ring saw driver according to any of claims 1 to 7, wherein one or a plurality of inner support members supporting the ring saw main body at an inside thereof are provided on an inner peripheral side of the ring saw main body.

9. A ring saw driver according to any of claims 6 to 8, wherein part of or all the rotary members are to be changed in position along a plane including a circulation plane of the endless strip, the endless strip being to be adjusted in tension by changing a position of the rotary member.

10. A ring saw driver according to any of claims 8 to 9, wherein the ring saw main body is removably attached on the driver, part of or all the inner support members being to be changed in position along a circulation plane direction of the ring saw main body, a ring saw main body different in diameter being to be attached by changing a position of the inner support member or by changing a position of the inner support member and the rotary member.

11. A ring saw driver according to any of claims 1 to 10, wherein a pair of side-surface support members are arranged in a manner clamping the ring saw main body at both side surface

thereof.

12. A ring saw driver according to claim 11, wherein the side-surface support member is a guide roller to roll-contact with a side surface of the ring saw main body due to circulation of the ring saw main body.

13. A ring saw-equipped cutter device to be removably fixed as an attachment to an arm tip of a shovel-based excavator such as a backhoe, the cutter device comprising:

a ring saw main body having a multiplicity of cutting edges along an outer periphery thereof; and

an endless strip arranged in a manner being wound at a part of an outer periphery thereof over a part of an outer periphery of the ring saw main body and for driving the ring saw main body into circulation.

14. A ring saw-equipped cutter device according to claim 13, wherein the endless strip is an endless belt.

15. A ring saw-equipped cutter device according to claim 14, wherein the endless belt has such a recess or a projection as to engage with a projection or a recess in the outer periphery of the ring saw main body.

16. A ring saw-equipped cutter device according to claim 13, wherein the endless strip is an endless chain structured to engage with a plurality of teeth formed along the outer periphery of the ring saw main body, in a portion being wound over the outer periphery of the ring saw main body.